

Amendment under 37 CFR §1.116  
Application No. 10/615,193  
Attorney Docket No. 000138A

RECEIVED  
CENTRAL FAX CENTER

JUL 03 2007

**AMENDMENTS TO THE SPECIFICATION**

Please amend the specification as follows:

Amend the paragraph beginning on page 36, line 16 to read as follows:

The Fe-based alloy material 50 was heated from about a room temperature to 740 °C (the point A<sub>1</sub>) at the average heating rate H<sub>R</sub> set at 2.9 °C/sec, 4.7 °C/sec, 6.4 °C/sec and 7.2 °C/sec. The relationship between the average temperature of the material 50 and the difference ΔT between the temperatures at the casting reference-temperature point P and the highest-temperature point Q was examined, thereby providing a result shown in Fig. 22. The term "average temperature" as used herein means an average value  $(T_E + T_F) / 2$  of temperatures T<sub>E</sub> and T<sub>F</sub> at the points E and F. The maximum temperature gradient T<sub>G</sub> was calculated from a maximum value of the temperature differences ΔT and the distance d ≈ 34 mm between both the points E and F. The relationship between the maximum temperature gradient T<sub>G</sub> and the average heating temperature H<sub>R</sub> was examined, thereby providing a result shown in Fig. 23. When the average heating temperature H<sub>R</sub> was set at 4.7°C/sec in this heating test, cracks were not generated in the Fe-based alloy material, but when the average heating rate H<sub>R</sub> was set at 6.4°C/sec, cracks were generated in the Fe-based alloy material.